

Integrated Monitoring of Radioactive Fallout Based on Artificial Intelligence and the Internet of Things

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Abstract

The development of wireless systems for detecting radioactive fallout in Azerbaijan is a critically important task for ensuring public safety and protecting the environment. Azerbaijan, like many other countries, is at risk of radioactive contamination as a result of accidents at nuclear facilities, terrorist acts, or natural disasters. When developing wireless systems for detecting radioactive fallout, a number of factors must be considered, such as the type and sensitivity of detectors, the range and reliability of wireless communication, the energy efficiency of the system, and its resistance to environmental influences. It is also important to ensure the system's compatibility with existing infrastructure and the possibility of scaling it in the future. Investing in the development and implementation of wireless systems for detecting radioactive fallout is an important step in ensuring Azerbaijan's national security. Such systems allow for the timely detection of and response to radioactive threats, minimizing the consequences of radioactive contamination and protecting public health.

Keywords: Radioactive fallout, wireless systems, safety, environmental monitoring, risks, emergencies, safety, sensors.